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## **Patent Abstracts of Japan**

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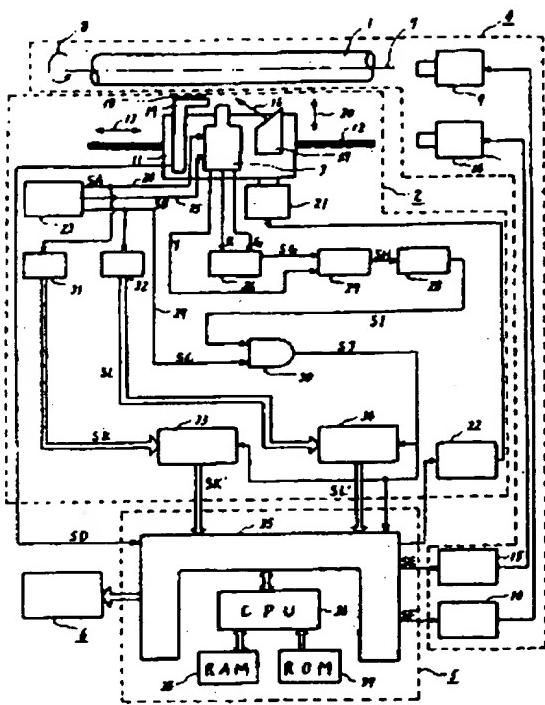
APPLICATION DATE : 12-11-81  
APPLICATION NUMBER : 56180385

APPLICANT : TOSHIBA CORP;

**INVENTOR : SUZUKI NOBUSHI;**

**INT.CL. : G01N 21/91**

**TITLE : INSPECTING DEVICE FOR PENETRATION**



**ABSTRACT :** PURPOSE: To perform penetration test automatically and accurately by scanning an object to be inspected on which a development agent has been applied with a color image taking device and making subtraction of blue or green signal from red signal and further dividing the subtraction by the brightness signal.

**CONSTITUTION:** An object 1 to be inspected on which white development agent is applied for flaw detection is held on a roller, and an approach switch 18 is operated and the pulse motor 21 is controlled by the CPU36. The base 11 is moved to keep constant the distance between the color ITV camera 3 and the object to be inspected. Next, pulse motors 9 and 14 are driven to rotate, and the camera 3 is moved in the X direction, and the object 1 is rotated in the direction  $\theta$  and scanned. Green (blue) image signal G is subtracted from the red image signal R that is obtained by means of a subtraction circuit 26, and the red color part of the object 1 is detected by dividing the difference of the subtraction by a brightness signal Y, and its position is calculated by the CPU36.

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